

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **07-261060**

(43)Date of publication of application : **13.10.1995**

(51)Int.CI.

G02B 6/42

G02B 6/34

H01L 31/0232

H01L 33/00

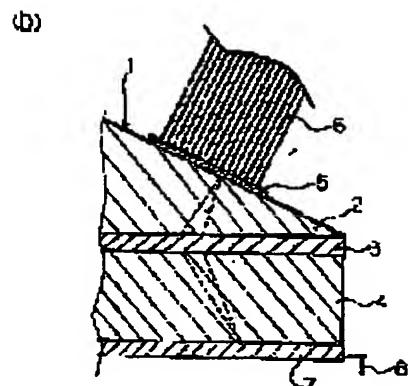
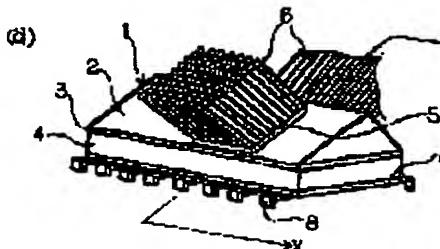
(21)Application number : **06-050476**

(71)Applicant : **KYOCERA CORP**

(22)Date of filing : **22.03.1994**

(72)Inventor : **SETOGUCHI KATSUHIDE**

(54) OPTICAL PACKAGE



(57)Abstract:

PURPOSE: To obtain an optical package which can couple plural light emitting elements and light receiving elements respectively with a low loss and high precision and can easily improve the position precision of an optical path converting element by converting the optical path direction of a light signal projected on an optical prism surface by a light emitting element to a light receiving element direction.

CONSTITUTION: The optical package 1 which is a pentagonal house type is constituted by integrating a 1st optical prism 2 in a triangular prism shape, a plate type hologram 3, and a 2nd optical prism 4 in a quadrangular prism shape in order. Further, plural optical fibers 6 are connected to the oblique surface of the 1st optical prism 2 through a microlens array 5, and an optical integrated circuit 7 is connected to the base surface of the 2nd optical prism 4. Thus, the

hologram 3 is interposed in the light signal propagation paths between the optical fibers 6 and optical integrated circuit 7 and even when light signals are propagated between the optical fibers 6 and the photodetection part of the optical integrated circuit 7, the optical coupling can be made low in loss and high in precision through the delicate optical path converting operation of the hologram 3.